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C L A I M S

1. A panel comprising an insulating core (10; 30), two outer faces (2, 3; 22, 23) made of metallic sheet disposed on opposite sides with respect to said core, characterised in that it comprises a cushion (12, 32) of mineral wool interposed between at least one of said outer faces and the insulating core.

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2. A panel according to claim 1, wherein the cushion (10) of mineral wool is fixed to the adjacent face (2, 3; 22, 23) of the panel.

3. A panel according to claim 2, wherein the cushion is fixed to the face (2, 3; 22, 23) of the panel by means of adhesive.

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4. A panel according to the preceding claims, wherein the thickness of the cushion (12, 32) of mineral wool is between 10 and 50% of the thickness of the panel.

5. A panel according to claim 4, wherein the density of the mineral wool is between 40 and 200 kg/m³.

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6. A panel according to the preceding claims, wherein the fibres of the cushion (12, 32) are orientated predominantly in a direction parallel to the ribs of the outer faces (2, 3; 22, 23) or in a direction substantially perpendicular to the latter.

7. A panel according to the preceding claims, wherein the insulating core (10, 30) is obtained with a polyurethane or phenolic foam.

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8. A panel according to the preceding claims, wherein the insulating core (10, 30) comprises a slab of one of the following materials: perlite, extruded polystyrene or expanded polystyrene.

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9. A panel according to the preceding claims, wherein the outer face (3) adjacent to the cushion (12) of mineral wool is provided with a plurality of holes (9).

10. A panel according to claim 9, wherein the holes (9) have diameter from 2 to 4 mm and pitch from 4 to 6 mm.

11. A panel according to claim 10, wherein the ratio empty/full of the face (3) with the holes (9) is about 33%.

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